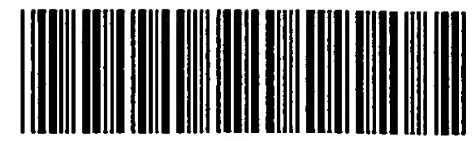


## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 09/676,0530  
Source: 1Fw/b  
Date Processed by STIC: 12/2/05

***ENTERED***



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/676,053D

DATE: 12/02/2005

TIME: 15:59:10

Input Set : A:\PTO.AMC.txt  
 Output Set: N:\CRF4\12022005\I676053D.raw

```

4 <110> APPLICANT: Dolly, J. Oliver
5   Aoki, Kei Roger
6   Wheeler, Larry A.
7   Garst, Michael E.
9 <120> TITLE OF INVENTION: MODIFICATION OF CLOSTRIDIAL TOXINS FOR
10  USE AS TRANSPORT PROTEINS
13 <130> FILE REFERENCE: 17044 DIV (BOT)
15 <140> CURRENT APPLICATION NUMBER: 09/676,053D
16 <141> CURRENT FILING DATE: 2000-09-28
18 <150> PRIOR APPLICATION NUMBER: 08/750,101
19 <151> PRIOR FILING DATE: 1997-05-01
21 <150> PRIOR APPLICATION NUMBER: PCT/GB95/0125
22 <151> PRIOR FILING DATE: 1995-05-31
24 <150> PRIOR APPLICATION NUMBER: GB 9410870.1
25 <151> PRIOR FILING DATE: 1994-05-31
27 <150> PRIOR APPLICATION NUMBER: GB 9410871.9
28 <151> PRIOR FILING DATE: 1994-05-31
30 <160> NUMBER OF SEQ ID NOS: 19
32 <170> SOFTWARE: FastSEQ for Windows Version 4.0
34 <210> SEQ ID NO: 1
35 <211> LENGTH: 33
36 <212> TYPE: DNA
37 <213> ORGANISM: Artificial Sequence
39 <220> FEATURE:
40 <221> NAME/KEY: primer_bind
41 <222> LOCATION: (1)...(33)
42 <223> OTHER INFORMATION: PCR primer for amplification of C. tetani
43   neurotoxin L chain
45 <400> SEQUENCE: 1
46 gagatggtcg acatgccaat aaccataaaat aat
48 <210> SEQ ID NO: 2
49 <211> LENGTH: 32
50 <212> TYPE: DNA
51 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <221> NAME/KEY: primer_bind
55 <222> LOCATION: (1)...(32)
56 <223> OTHER INFORMATION: PCR primer for amplification of C. tetani
57   neurotoxin L chain
59 <400> SEQUENCE: 2
60 acgcgaagct tttatcatgc agttcttatta ta
62 <210> SEQ ID NO: 3
63 <211> LENGTH: 30

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33

32

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/676,053D

DATE: 12/02/2005

TIME: 15:59:10

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\12022005\I676053D.raw

64 <212> TYPE: DNA  
65 <213> ORGANISM: Artificial Sequence  
67 <220> FEATURE:  
68 <221> NAME/KEY: primer\_bind  
69 <222> LOCATION: (1)...(30)  
70 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and  
71 amplification of C. tetani neurotoxin L chain  
73 <400> SEQUENCE: 3  
74 tagtacatgt ataagtgcgt gcattaatag 30  
76 <210> SEQ ID NO: 4  
77 <211> LENGTH: 20  
78 <212> TYPE: DNA  
79 <213> ORGANISM: Artificial Sequence  
81 <220> FEATURE:  
82 <221> NAME/KEY: primer\_bind  
83 <222> LOCATION: (1)...(20)  
84 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and  
85 amplification of C. tetani neurotoxin L chain  
87 <400> SEQUENCE: 4  
88 ttatacatgt actacatgg 20  
90 <210> SEQ ID NO: 5  
91 <211> LENGTH: 23  
92 <212> TYPE: DNA  
93 <213> ORGANISM: Artificial Sequence  
95 <220> FEATURE:  
96 <221> NAME/KEY: primer\_bind  
97 <222> LOCATION: (1)...(23)  
98 <223> OTHER INFORMATION: PCR primer for amplification of C. botulinum  
99 neurotoxin L chain  
101 <400> SEQUENCE: 5  
102 aaaggccttt tgttaataaa caa 23  
104 <210> SEQ ID NO: 6  
105 <211> LENGTH: 26  
106 <212> TYPE: DNA  
107 <213> ORGANISM: Artificial Sequence  
109 <220> FEATURE:  
110 <221> NAME/KEY: primer\_bind  
111 <222> LOCATION: (1)...(26)  
112 <223> OTHER INFORMATION: PCR primer for amplification of C. botulinum  
113 neurotoxin L chain  
115 <400> SEQUENCE: 6  
116 ggaattctta cttattgtat ccttta 26  
118 <210> SEQ ID NO: 7  
119 <211> LENGTH: 18  
120 <212> TYPE: DNA  
121 <213> ORGANISM: Artificial Sequence  
123 <220> FEATURE:  
124 <221> NAME/KEY: primer\_bind  
125 <222> LOCATION: (1)...(18)

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/676,053D

DATE: 12/02/2005  
TIME: 15:59:10

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\12022005\I676053D.raw

126 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and  
127       amplification of C. botulinum neurotoxin L chain  
129 <400> SEQUENCE: 7  
130 gcacatcaac ttatacat  
132 <210> SEQ ID NO: 8  
133 <211> LENGTH: 18  
134 <212> TYPE: DNA  
135 <213> ORGANISM: Artificial Sequence  
137 <220> FEATURE:  
138 <221> NAME/KEY: primer\_bind  
139 <222> LOCATION: (1)...(18)  
140 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and  
141       amplification of C. botulinum neurotoxin L chain  
143 <400> SEQUENCE: 8  
144 atgtataagt tgatgtgc  
146 <210> SEQ ID NO: 9  
147 <211> LENGTH: 18  
148 <212> TYPE: DNA  
149 <213> ORGANISM: Artificial Sequence  
151 <220> FEATURE:  
152 <221> NAME/KEY: primer\_bind  
153 <222> LOCATION: (1)...(18)  
154 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and  
155       amplification of C. botulinum neurotoxin L chain  
157 <400> SEQUENCE: 9  
158 aacttatata tgctggac  
160 <210> SEQ ID NO: 10  
161 <211> LENGTH: 18  
162 <212> TYPE: DNA  
163 <213> ORGANISM: Artificial Sequence  
165 <220> FEATURE:  
166 <221> NAME/KEY: primer\_bind  
167 <222> LOCATION: (1)...(18)  
168 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and  
169       amplification of C. botulinum neurotoxin L chain  
171 <400> SEQUENCE: 10  
172 gtccagcata tataagtt  
174 <210> SEQ ID NO: 11  
175 <211> LENGTH: 13  
176 <212> TYPE: PRT  
177 <213> ORGANISM: Artificial Sequence  
179 <220> FEATURE:  
180 <221> NAME/KEY: SITE  
181 <222> LOCATION: (1)...(13)  
182 <223> OTHER INFORMATION: Portion of predicted amino acid sequence of human  
183       SNAP-25  
185 <400> SEQUENCE: 11  
186 Cys Ala Asn Gln Arg Ala Thr Lys Met Leu Gly Ser Gly  
187 1                   5                   10

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/676,053D

DATE: 12/02/2005  
TIME: 15:59:10

Input Set : 'A:\PTO.AMC.txt  
Output Set: N:\CRF4\12022005\I676053D.raw

188 <210> SEQ ID NO: 12  
189 <211> LENGTH: 29  
190 <212> TYPE: DNA  
191 <213> ORGANISM: Artificial Sequence  
193 <220> FEATURE:  
194 <221> NAME/KEY: primer\_bind  
195 <222> LOCATION: (1)...(29)  
196 <223> OTHER INFORMATION: PCR primer for amplification of C. tetani  
197 neurotoxin L chain  
199 <400> SEQUENCE: 12  
200 atttcaccaa taaccataaa taatttttag 29  
202 <210> SEQ ID NO: 13  
203 <211> LENGTH: 26  
204 <212> TYPE: DNA  
205 <213> ORGANISM: Artificial Sequence  
207 <220> FEATURE:  
208 <221> NAME/KEY: primer\_bind  
209 <222> LOCATION: (1)...(26)  
210 <223> OTHER INFORMATION: PCR primer for amplification of C. tetani  
211 neurotoxin L chain  
213 <400> SEQUENCE: 13  
214 cgggatcctt ctgtatcatt gttaaat 26  
216 <210> SEQ ID NO: 14  
217 <211> LENGTH: 63  
218 <212> TYPE: DNA  
219 <213> ORGANISM: Artificial Sequence  
221 <220> FEATURE:  
222 <221> NAME/KEY: misc\_feature  
223 <222> LOCATION: (1)...(63)  
224 <223> OTHER INFORMATION: Polylinker region  
226 <400> SEQUENCE: 14  
227 atcgaggaa ggatttcaga attcgatcc tctagagtgc acatgccaat aaccataaag 60  
228 ctt 63  
230 <210> SEQ ID NO: 15  
231 <211> LENGTH: 11  
232 <212> TYPE: PRT  
233 <213> ORGANISM: Artificial Sequence  
235 <220> FEATURE:  
236 <221> NAME/KEY: SITE  
237 <222> LOCATION: (1)...(11)  
238 <223> OTHER INFORMATION: Wild-type region of C. tetani light chain  
240 <400> SEQUENCE: 15  
241 Leu Leu Met His Glu Leu Ile His Val Leu His  
242 1 5 10  
243 <210> SEQ ID NO: 16  
244 <211> LENGTH: 11  
245 <212> TYPE: PRT  
246 <213> ORGANISM: Artificial Sequence  
248 <220> FEATURE:

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/676,053D

DATE: 12/02/2005  
TIME: 15:59:10

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\12022005\I676053D.raw

249 <221> NAME/KEY: VARIANT  
250 <222> LOCATION: (5)...(5)  
251 <223> OTHER INFORMATION: Ala 234 mutant region of C. tetani light chain  
253 <400> SEQUENCE: 16  
254 Leu Leu Met His Ala Leu Ile His Val Leu His  
255 1 5 10  
256 <210> SEQ ID NO: 17  
257 <211> LENGTH: 13  
258 <212> TYPE: PRT  
259 <213> ORGANISM: Artificial Sequence  
261 <220> FEATURE:  
262 <221> NAME/KEY: SITE  
263 <222> LOCATION: (1)...(13)  
264 <223> OTHER INFORMATION: Polylinker region  
266 <400> SEQUENCE: 17  
267 Ile Glu Gly Arg Ile Ser Glu Phe Gly Ser Pro Pro Phe  
268 1 5 10  
269 <210> SEQ ID NO: 18  
270 <211> LENGTH: 39  
271 <212> TYPE: DNA  
272 <213> ORGANISM: Artificial Sequence  
274 <220> FEATURE:  
275 <221> NAME/KEY: misc\_feature  
276 <222> LOCATION: (1)...(39)  
277 <223> OTHER INFORMATION: Polylinker region  
279 <400> SEQUENCE: 18  
280 atcgaggaa ggatttcaga attcgatcc cccctttt 39  
282 <210> SEQ ID NO: 19  
283 <211> LENGTH: 19  
284 <212> TYPE: PRT  
285 <213> ORGANISM: Artificial Sequence  
287 <220> FEATURE:  
288 <221> NAME/KEY: SITE  
289 <222> LOCATION: (1)...(19)  
290 <223> OTHER INFORMATION: Polylinker region  
292 <400> SEQUENCE: 19  
293 Ile Glu Gly Arg Ile Ser Glu Phe Gly Ser Ser Arg Val Asp Met Pro  
294 1 5 10 15  
295 Ile Thr Ile

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/676,053D

DATE: 12/02/2005

TIME: 15:59:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\12022005\I676053D.raw